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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/847,244	05/01/2001	Melissa D. Beebe	M-9898 US	9206
33438	7590 05/19/2005		EXAMINER	
HAMILTON & TERRILE, LLP			GORT, ELAINE L	
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DATE MAILED: 05/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)				
Office Action Summer.		09/847,244	BEEBE ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Elaine Gort	3627				
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet	vith the correspondence address				
THE I - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR RIMALING DATE OF THIS COMMUNICATION IS AN ARREST OF THIS COMMUNICATION IS A COMMUNICATION IN THIS COMMUNICATION IN THIS COMMUNICATION IS A COMMUNICATION IN THIS COMMUNICATION IN THIS COMMUNICATION IS A COMMUNICATION IN THIS COMMUNICATION IN THE COMMUNICATIO	ON. FR 1.136(a). In no event, however, may a n. a reply within the statutory minimum of the eriod will apply and will expire SIX (6) M6 statute, cause the application to become a	a reply be timely filed  inty (30) days will be considered timely.  INTHS from the mailing date of this communication  ABANDONED (35 U.S.C. § 133).	n.			
Status							
1)⊠	Responsive to communication(s) filed on 2	28 February 2005.					
2a)⊠	This action is <b>FINAL</b> . 2b)⊠	This action is non-final.					
3)□	Since this application is in condition for alle	owance except for formal ma	tters, prosecution as to the merits is	5			
	closed in accordance with the practice und	der <i>Ex par</i> te Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Dispositi	on of Claims						
4) 🛛	Claim(s) 1-12 and 19-30 is/are pending in	the application.					
	4a) Of the above claim(s) is/are with	• •					
	5) Claim(s) is/are allowed.						
	Claim(s) 1-12 and 19-30 is/are rejected.						
	Claim(s) is/are objected to.			•			
8)[	Claim(s) are subject to restriction a	nd/or election requirement.					
Applicati	on Papers						
9)[	The specification is objected to by the Exar	miner.		·			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the co	rrection is required if the drawin	g(s) is objected to. See 37 CFR 1.121(c	d).			
11) 🔲	The oath or declaration is objected to by the	e Examiner. Note the attache	ed Office Action or form PTO-152.				
Priority u	nder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for ford		§ 119(a)-(d) or (f).				
	<ol> <li>Certified copies of the priority documents.</li> <li>Certified copies of the priority documents.</li> </ol>		Application No.				
	<ul><li>3. Copies of the certified copies of the</li></ul>		• • • • • • • • • • • • • • • • • • • •				
	application from the International Bu		Treceived in this National Stage				
* S	ee the attached detailed Office action for a		t received.				
		•					
Attachment	(s)						
1) Notice	e of References Cited (PTO-892)	4) $\square$ Interview	Summary (PTO-413)				
2) Notice	e of Draftsperson's Patent Drawing Review (PTO-948	Paper No	(s)/Mail Date				
	nation Disclosure Statement(s) (PTO-1449 or PTO/SE No(s)/Mail Date	6) Notice of Cher:	Informal Patent Application (PTO-152)				

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#### **DETAILED ACTION**

1. The finality of the rejection of the last Office action is withdrawn. Confusion regarding the existence of claims 19-30 existed based on the Applicant submitting three amendments in a row with the final amendment filed 4/23/04 which failed to include claims 19-30 and thus these claims were not acted upon. This action is in response to the claims filed 3/11/04 which include the claims 19-30.

### **Double Patenting**

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1-12 and 19-30 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-39 of copending Application No. 10/320889, claims 1-31 of copending Application No. 10/774330, and claims 1-62 of copending Application No. 10/172306.

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Although the conflicting claims are not identical, they are not patentably distinct from each other because '889, '330 and '306 show all steps of the claims.

This is a <u>provisional</u> obviousness-type double patenting rejection.

# Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 19-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 19 recites the limitation "the customer order" in line 4. There is insufficient antecedent basis for this limitation in the claim.

Claim 19 recites the limitation "the corresponding ordered information" in line 5.

There is insufficient antecedent basis for this limitation in the claim.

Claim 30 recites the limitation "the first component" in line 3. There is insufficient antecedent basis for this limitation in the claim.

### Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 1-12 and 19-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Slotznick (US Patent 5,983,200) in view of Yamamoto et al. (US Patent 5,914,878) and Examiner's Official Notice.

Slotnick discloses the claimed method for scheduling work for mass-producing items in a factory but is silent regarding determining current inventory and generating a material delivery schedule. Yamamoto et al discloses that it is known in the art to determine raw material ordering/delivery schedules based on current inventories and orders (see abstract) to prevent carrying excessive inventories while providing efficient control and supply of raw materials. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the method for scheduling work of Slotznick with the inventory tracking and generation of a material delivery schedule as taught by Yamamoto et al., in order to prevent carrying excessive inventories while providing efficient control and supply of raw materials.

# The following is provided for clarification purposes:

A method for scheduling work and delivery of material for mass-producing items in a factory comprising (Slotznick discloses a method for scheduling work for mass-produced items such as flowers and gift items; see 166, 168 and 154 in figure 8 for scheduling work; Examiner has used Yamamoto et al. to teach the need for scheduling the delivery of material by means of a raw material ordering system which determines required quantities for specific time periods):

Obtaining at least one outstanding customer order, wherein each outstanding customer of the at least one outstanding customer order includes an item ordered by a

customer, and producing the item requires a required quantity of a required material (Siotznick, for example, discloses an order placed for a flower arrangement which inherently requires a quantity or a required material, such as a dozen roses, see 166 in figure 8);

Determining a current state of an available inventory of at least one material from a plurality of material sources (Yamamoto et al. discloses calculating inventory by adding one or more inventory sources together to get a total available inventory, for example as shown in figure 41);

Periodically generating a work schedule and a material delivery schedule for producing the item using the at least one outstanding customer order and the current state of the available inventory (Slotznick discloses periodically during the day checking if any new orders have been entered that must be shipped today and if so shipping the order today. In producing that shipment the work schedule is generated to produce that shipment. Examiner has used Yamamoto et al. to teach that it is old and well known to use material delivery schedules to provide efficient control of needed raw materials.), wherein

The periodically generating occurs at fixed time intervals (Examiner takes official notice that it is old and well known in the art of scheduling to use fixed time intervals to provide a systematic routine. For example, the florist may check the system every hour to ensure that they are quickly updated of any deliveries that need to go out that day.);

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The periodically generating occurs more than once during a manufacturing shift (Slotznick discloses "periodically during the day" which the Examiner construes to occur more than once during a manufacturing shift, figure 8);

The determining the current state of the available inventory is performed such that the determining the current state of the available inventory is completed immediately prior to the generating the work schedule and the material delivery schedule (Yamamoto et al. discloses the use of inventory data in determining order quantities and for setting daily production plans, abstract); and

The obtaining the at least one outstanding customer order is performed such that the obtaining the customer order is completed immediately prior to the generating the work schedule and the material delivery schedule (In Slotznick the customer order is obtained by the florist immediately prior to the generation of the work schedule in order to ship the order, figure 8);

(Regarding claims 2 and 20) wherein the at least one outstanding customer order and the current state of the available inventory are posted continuously for the generating the work schedule and the material delivery schedule (Customer orders are entered into the system and thus are "posted" continuously. Examiner takes Official Notice that automated inventory tracking systems are notoriously old and well known in the art of inventory systems in order to efficiently track inventory, therefore the use of an automated inventory tracking system would have been obvious at the time of the invention to provide efficient tracking of inventory.):

(Regarding claims 3 and 21) wherein the at least one outstanding customer order and the current state of the available inventory are posted continuously to an automated data warehouse (Customer orders are entered and saved into the system and thus are "posted" continuously to an automated data warehouse. Examiner takes Official Notice that automated inventory tracking systems are notoriously old and well known in the art of inventory systems in order to efficiently track inventory, therefore the use of an automated inventory tracking system would have been obvious at the time of the invention to provide efficient tracking of inventory. The storage of this inventory data would be saved in a database that would be "an automated data warehouse".);

(Regarding claims 4 and 22) wherein the determining the current state of the available inventory includes determining for each material of the at least one material of the available inventory:

a material source of the plurality of material sources from which the material can be obtained, where the material source is updated continuously (Yamamoto et al. discloses manufacturers of raw material in figure 27 for the purpose of obtaining additional raw materials);

an available quantity of the available material at the material source, wherein the available quantity is updated continuously (Examiner take official notice that it is notoriously old and well know in the art of manufacturing to obtain inventory levels of suppliers in order to ensure adequate supply of material for production, therefore it would have been obvious to one of ordinary skill at the time of the invention to provide

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the method, as modified above, with supplier inventory tracking means to ensure adequate supply of material for production.);

an available time of the available quantity of the material at the material source to each operation of at least one operation of each manufacturing line of at least one manufacturing line of the factory, wherein the availability time is updated continuously (Yamamoto et al. discloses that it is old and well know to track standard lead times for raw materials from suppliers in figure 27 in order to know how long it will take to obtain the necessary materials, therefor it would have been obvious to one of ordinary skill at the time of the invention to provide the method, as modified above, with lead times to ensure timely supply of materials for production.);

(Regarding claims 5 and 23) wherein the obtaining the at least one outstanding customer order includes using a status for each customer order of at least one customer order, wherein the status for each customer order is updated continuously; and

the status for each outstanding customer order corresponds to an outstanding status (Slotznick discloses orders having delivery dates and as being occasional or periodic, see figure 8 reference 156);

(Regarding claims 6 and 24) wherein the available inventory comprises external inventory (Examiner take official notice that it is notoriously old and well know in the art of manufacturing to obtain inventory levels of suppliers in order to ensure adequate supply of material for production, therefore it would have been obvious to one of ordinary skill at the time of the invention to provide the method, as modified above, with

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supplier inventory tracking means to ensure adequate supply of material for production.);

(Regarding claims 7 and 25) wherein the available inventory comprises work-in-progress inventory (Examiner takes Official Notice that in a typical operation inventory is held in three different forms: as raw material (includes suppliers and inventory in transit), work-in-process (semi completed goods) and finished goods inventories.

Therefore it would have been obvious to one of ordinary skill at the time of the invention to provide the method, as modified above, with the tracking of work-in-progress inventory to track available inventory throughout the production process.);

(Regarding claims 8 and 26) wherein the available inventory comprises in-transit inventory (Examiner takes Official Notice that in a typical operation inventory is held in three different forms: as raw material (includes from suppliers and inventory in transit), work-in-process (semi completed goods) and finished goods inventories. Therefore it would have been obvious to one of ordinary skill at the time of the invention to provide the method, as modified above, with the tracking of in-transit inventory to track available inventory.);

(Regarding claims 9 and 27) wherein the available inventory comprises in-house inventory (Examiner takes Official Notice that in a typical operation inventory is held in three different forms: as raw material (includes from suppliers and inventory in transit), work-in-process (semi completed goods) and finished goods inventories. Therefore it would have been obvious to one of ordinary skill at the time of the invention to provide

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the method, as modified above, with the tracking of in-house inventory (such as in-house raw material, work-in-process and finished goods) to track available inventory.);

(Regarding claims 10 and 28) wherein the periodically generating the work schedule and the material schedule includes generating the work schedule and the material delivery schedule every two hours (Examiner takes official notice that it is old and well known in the art of scheduling to use fixed time intervals to provide a systematic routine. For example, the florist may check the system every two hours to ensure that they are quickly updated of any deliveries that need to go out that day. Therefore it would have been obvious to one of ordinary skill in the art to check the system in a two hour interval in order to update the work schedule in a systematic way to keep current.);

(Regarding claims 11 and 29) wherein the manufacturing shift comprises a number of hours less than or equal to eight; and the periodically generating the work schedule and the material schedule includes generating the work schedule and the material delivery schedule a plurality of times during the manufacturing shift (Slotznick discloses periodically checking during the day which the Examiner construes to be a manufacturing shift which is "a number of hours less than or equal to eight".);

(Regarding claims 12 and 30) wherein the plurality of material sources comprises an external material source, the external material source providing an external inventory of a first material of the at least one material of the available inventory; and

the determining the available inventory of the material includes using an external visibility interface module to determine the available inventory of the first material in the

external inventory (Examiner takes official notice that it is notoriously old and well know in the art of manufacturing to obtain inventory levels of suppliers via a networked system in order to ensure adequate supply of material for production, therefore it would have been obvious to one of ordinary skill at the time of the invention to provide the method, as modified above, with automated supplier inventory tracking means to ensure an adequate supply of material for production.);

(Regarding claim 19) A method for scheduling work and delivery of material for mass-producing information handling systems in a factory comprising (Slotznick discloses a method for scheduling work for mass-produced items such as flowers and gift items; see 166, 168 and 154 in figure 8 for scheduling work; Examiner has used Yamamoto et al. to teach the need for scheduling the delivery of material by means of a raw material ordering system which determines required quantities for specific time periods. Regarding the use of the system for producing information handling systems the Slotznick method would be "capable" of scheduling work and delivery of information handling systems in a factory. It would be obvious for one of ordinary skill in the art of manufacturing to use the system of Slotznick for scheduling work for information handling systems in order to provide customers the ability to order and to efficiently schedule the manufacturing of information handling systems):

Obtaining a plurality of customer orders, each customer order of the plurality of the customer orders including an ordered information handling system, the customer order specifying components for the corresponding ordered information handling system (just as Slotznick discloses customer specifying components for gifts such as what type

of flowers, vase, card, etc... customer's would for example specify components to their computer), producing the information handling system ordered by the customer requiring a plurality of components, and at least one of the plurality of components varying from one ordered information handling system and another ordered information handling system based upon components specified by the customer (The systems would be produced in accordance to the customer's selection which would vary based upon what components they selected);

Determining a current state of an available inventory of at least one component from a plurality of component sources (Yamamoto et al. discloses calculating inventory by adding one or more inventory sources together to get a total available inventory, for example as shown in figure 41);

Periodically generating a work schedule and a material delivery schedule for producing the ordered information handling system using the customer order and the current state of the available inventory (Slotznick discloses periodically during the day checking if any new orders have been entered that must be shipped today and if so shipping the order today. In producing that shipment, the work schedule is generated to produce that shipment. Examiner has uses Yamamoto et al. to teach that it is old and well known to use material delivery schedules to provide efficient control of needed raw materials.), wherein

The determining the current state of the available inventory is performed such that the determining the current state of the available inventory is completed immediately prior to the generating the work schedule and the material delivery

schedule (Yamamoto et al. discloses the use of inventory data in determining order quantities and for setting daily production plans, abstract); and

The obtaining each of the plurality of customer orders is performed such that the obtaining the plurality of customer orders is completed immediately prior to the generating the work schedule and the material delivery schedule (In Slotznick the customer order is obtained by the florist immediately prior to the generation of the work schedule in order to ship the order, figure 8. Examiner has used Yamamoto et al. to disclose the use of determining raw material needs and ordering that is based on existing inventory and orders).

### Response to Arguments

8. Applicant's arguments with respect to claims 1-12 and 19-30 have been considered but are most in view of the new ground(s) of rejection.

### Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Mukhopadhyay discloses scheduling of deliveries using just in time.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elaine Gort whose telephone number is (571)272-6781. The examiner can normally be reached on Tuesdays and Fridays from 7:00 am to 7:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Olszewski, can be reached at (571)272-6788. The fax phone number for the organization where this application or processing is assigned is (703)872-9326.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-1113.

**Elaine Gort** 

Examiner – Art Unit 3627

May 13, 2005